WHAT IS CLAIMED IS:

1. A method of automatically registering an IP address and domain name, the method comprising:

(a) generating in a host, a Duplicate Address Detection (DAD) request message including an IP address and domain name of the host;

(b) receiving the DAD request message through one of a Domain Name Service (DNS) server and a plurality of other hosts connected to each other over a network of the host, and determining whether another host that uses at least one of the IP address and the domain name included in the DAD request message exists on the network of the host; and

(c) if it is determined that said another host does not use said at least one of the IP address and the domain name, storing the IP address and the domain name in one of a DNS zone file of the DNS server and storage areas of the plurality of other hosts.

2. The method of claim 1, wherein the DAD request message comprises:

a target address field which stores the IP address of the host; and

an option field which stores the domain name of the host.

3. The method of claim 2, wherein the IP address of the host is an IP version 6 (IPv6) address.

4. The method of claim 1, further comprising:

(d) determining whether a prefix is allocated;

(e) if the prefix is allocated, creating a new IP address representing one of a site-local address and a global address, using the prefix, the IP address, and the domain name; and

(f) registering the newly created IP address and the domain name in one of the DNS server and at least one of the plurality of other hosts.

5. The method of claim 1, further comprising:

(g) if it is determined that said another host uses said at least one of the IP address and the domain name, determining whether one of the IP address and the domain name is duplicated;

(h) if the IP address is duplicated, transmitting a first DAD response message to the host;

(i) responding to the first DAD response message by updating the IP address of the host and repeating the steps (a) through (c);

(j) if the domain name is duplicated, transmitting a second DAD response message to the host; and

(k) responding to the second DAD response message by changing the domain name of the host and repeating the steps (a) through (c);

6. The method of claim 5, wherein the first DAD response message comprises:

a target address field which stores the IP address of the host; and

an option field which stores a Media Access Control (MAC) address of the host.

7. The method of claim 5, wherein the second DAD response message comprises:

a target address field which stores the IP address of the host;

an option field which stores the domain name of the host; and

a flag having a predetermined value, which is used for indicating a request to change the domain name.

8. A method of automatically registering an IP address and domain name, the method comprising:

(a) transmitting a Duplicate Address Detection (DAD) request message, including an IP address and domain name of a host, from the host to a Domain Name Service (DNS) server;

(b) determining whether another host that uses at least one of the IP address and the domain name included in the DAD request message exists on the network of the host; and

(c) if it is determined that said another host does not use at least one of the IP address and the domain name, storing the IP address and the domain name in a DNS zone file of the DNS server.

9. The method of claim 8, wherein the DAD request message comprises:

a target address field which stores the IP address of the host; and

an option field which stores the domain name of the host.

10. The method of claim 9, wherein the IP address of the host is an IP version 6 (IPv6) address.

11. The method of claim 8, further comprising:

(d) determining whether a prefix is allocated;

(e) if a prefix is allocated, creating a new IP address representing one of a site-local address and a global address, using the prefix, the IP address, and the domain name; and

(f) registering the newly created IP address and the domain name in the DNS server.

12. The method of claim 8, comprising:

(g) if it is determined that said another host uses said at least one of the IP address and the domain name, determining whether one among the IP address and the domain name is duplicated;

(h) if the IP address is duplicated, transmitting a first DAD response message to the host;

(i) responding to the first DAD response message by updating the IP address of the host and repeating the steps (a) through (c);

(j) if the domain name is duplicated, transmitting a second DAD response message to the host; and

(k) responding to the second DAD response message by changing the domain name of the host and repeating the steps (a) through (c);

13. The method of claim 12, wherein the first DAD response message comprises:

a target address field which stores the IP address of the host; and

an option field which stores a Media Access Control (MAC) address of the host.

14. The method of claim 12, wherein the second DAD response message comprises:

a target address field which stores the IP address of the host;

an option field which stores the domain name of the host; and

a flag having a predetermined value, which is used for indicating a request to change the domain name.

15. A method of automatically registering an IP address and domain name, the method comprising:

(a) transmitting a Duplicate Address Detection (DAD) request message including an IP address and domain name of a host, from the host to a plurality of other hosts connected to each other over a network;

(b) determining whether another host that uses at least one of the IP address and the domain name included in the DAD request message exists on the network of the host and;

(c) if it is determined that said another host does not exist in the step(b), storing the IP address and the domain name in respective storage areas of the plurality of other hosts.

16. The method of claim 15, wherein the DAD request message comprises:

a target address field which stores the IP address of the host;

an option field which stores the domain name of the host.

17. The method of claim 16, wherein the IP address of the host is an IP version 6 (IPv6) address.

18. The method of claim 15, further comprising:

(d) determining whether a prefix is allocated;

(e) if a prefix is allocated, creating a new IP address representing one of a site-local address and a global address, using the prefix, the IP address, and the domain name; and

(f) registering the newly created IP address and the domain name in the plurality of other hosts.

19. The method of claim 15, further comprising:

(g) if it is determined that said another host uses at least one of the IP address and the domain name, determining whether one among the IP address and the domain name is duplicated;

(h) if the IP address is duplicated, transmitting a first DAD response message to the host;

(i) responding to the first DAD response message by updating the IP address of the host and repeating the steps (a) through (c);

(j) if the domain name is duplicated, transmitting a second DAD response message to the host; and

(k) responding to the second DAD response message by changing the domain name of the host and repeating step (a) through (c).

20. The method of claim 19, wherein the first DAD response message comprises:

a target address field which stores the IP address of the host;

an option field which stores a MAC address of the host.

21. The method of claim 19, wherein the second DAD response message comprises:

a target address field which stores the IP address of the host;

an option field which stores the domain name of the host; and

a flag having a predetermined value, which is used for indicating a request to change the domain name.

22. A computer readable medium having embodied thereon a computer program for performing the method according to any one of claims 1, 8, and 15.